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Sheet 1 of 3

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				ATTY. DOCKET NO. I-2-0304.1US		SERIAL NO. 10/644,361	
				APPLICANT Kwak, et al.			
				FILING DATE August 20, 2003		GROUP 2611	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
NP/		6,144,711	11/2000	Raleigh et al.			
NP/		6,208,295	03/2001	Dogan et al.			
NP/		6,252,540	06/2001	Hale et al.			
NP/		6,370,129	04/2002	Huang			
NP/	*	6,424,596	07/2002	Donald			
NP/	*	6,625,203	09/2003	De et al.			
NP/	*	6,952,460	10/2005	Van Wechel et al.			
NP/	*	2002/0146078	10/2002	Gorokhov et al.			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
NP/		99/40698	08/1999	WO			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
NP/		Klein et al., "Zero Forcing and Minimum Mean-Square-Error Equalization for Multiuser Detection in Code-Division Multiple-Access Channels," IEEE Transactions on Vehicular Technology, Vol. 45, No. 2, May 1996.					
NP/		Klein, "Data Detection Algorithms Specially Designed for the Downlink of CDMA Mobile Radio Systems," IEEE 47 th Vehicular Technology Conference, Phoenix, Arizona, US, May 1997.					
NP/		Karimi et al., "A Novel and Efficient Solution to Block-Based Joint-Detection Using Approximate Cholesky Factorization," Motorola GSM Products Division, Swindon, UK, 1998.					

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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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NP/		PA Consulting Group/Racal Instruments Ltd., "Low Cost MMSE-BLE-SD Algorithm for UTRA TDD Mode Downlink," ETSI STC SMG2 Layer 1 Expert Group, Helsinki, Finland, September 1998.
NP/		Klein et al., "Linear Unbiased Data Estimation in Mobile Radio Systems Applying CDMA," IEEE Journal on Selected Areas in Communications, Vol. 11, No. 7, September 1993.
NP/		Benvenuto et al., "Joint Detection with Low Computational Complexity for Hybrid TD-CDMA Systems," Vehicular Technology Conference, 1999, VTC IEEE VTS 50 th , Amsterdam, The Netherlands, September 1999.
NP/		Das et al., "Computationally Efficient Multiuser Detectors," Personal, Indoor and Mobile Radio Communications, 1997, The 8 th Annual IEEE International Symposium on Helsinki, Finland, September 1997.
NP/		Lee et al., "A Fast Computation Algorithm for the Decision Feedback Equalizer," IEEE Transactions on Communications, Vol. 43, No. 11, November 1999.
NP/	*	Vollmer et al., "Comparative Study of Joint-Detection Techniques for TD-CDMA Based Mobile Radio Systems", IEEE Journal on Selected Areas in Communications, IEEE, Vol. 19, No. 8, August 2001, pp. 1461-1475.
NP/	*	Pan et al., "Low Complexity Data Detection Using Fast Fourier Transform Decomposition of Channel Correlation Matrix", 2001 IEEE Global Telecommunications Conference, Vol. 2 of 6, November 2001, pp. 1322-1326.
NP/	*	3G TS 25.221 V3.2.0, 2000-03, "ULTRA (TDD) physical channels and mapping of transport channels onto physical channels," 3 rd Generation Partnership Project, Technical Specification Group RAN WG1. (www.3gpp.org).
NP/	*	3G TS 25.221 V4.0.0, 2001-03, "ULTRA (TDD) physical channels and mapping of transport channels onto physical channels," 3 rd Generation Partnership Project, Technical Specification Group RAN WG1. (www.3gpp.org).
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/VP/	.	G.K. Kaleh, "Channel equalization for block transmission systems," IEEE J. Select. Areas Commun., Vol. 13, pp. 110-120, Jan. 1995.	
/VP/	.	P. Jung and J. Blanz, "Joint detection with coherent receiver antenna diversity in CDMA mobile radio systems," IEEE Trans. Veh. Technol., Vol. 44, pp. 76-88, Feb. 1995.	
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